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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/023,234	. .	12/18/2001	Robert W. Stadler	P-9888.00	3742	
27581	7590	05/23/2005	•	EXAMINER		
MEDTR	ONIC, INC	C.	MANUEL, GEORGE C			
		ARKWAY NE	•	ART UNIT	PAPER NUMBER	
MS-LC34	-	T 55400 5604	<u> </u>	FAFER NUMBER		
MINNEA	POLIS, MI	N 55432-5604	3762			
				DATE MAILED: 05/22/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

				SH				
	Ap	plication No.	Applicant(s)					
	1	/023,234	STADLER ET AL.					
Office Action Sumn	nary	aminer	Art Unit					
	Ge	orge Manuel	3762					
The MAILING DATE of this Period for Reply	communication appears	on the cover sheet w	vith the correspondence ad	ldress				
A SHORTENED STATUTORY PE THE MAILING DATE OF THIS CO - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date - If the period for reply specified above is less to - If NO period for reply is specified above, the relative to reply within the set or extended per - Any reply received by the Office later than three armed patent term adjustment. See 37 CFR	DMMUNICATION. e provisions of 37 CFR 1.136(a). of this communication. han thirty (30) days, a reply within naximum statutory period will app iod for reply will, by statute, cause ee months after the mailing date of	In no event, however, may and the statutory minimum of this by and will expire SIX (6) MO at the application to become A	reply be timely filed irty (30) days will be considered timel NTHS from the mailing date of this c					
Status				•				
1) Responsive to communicati	on(s) filed on <u>05 April 2</u>	<u>2005</u> .						
2a) This action is FINAL.	∑ This action is FINAL. 2b) This action is non-final.							
3) Since this application is in c	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the	ne practice under Ex pa	nrte Quayle, 1935 C.I	D. 11, 453 O.G. 213.					
Disposition of Claims								
4)⊠ Claim(s) <u>1-55</u> is/are pendin	Claim(s) <u>1-55</u> is/are pending in the application.							
4a) Of the above claim(s)	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allow	ed.							
6)⊠ Claim(s) <u>1-55</u> is/are rejected	d.							
7) Claim(s) is/are object	Claim(s) is/are objected to.							
8) Claim(s) are subject	to restriction and/or ele	ction requirement.						
Application Papers								
9) The specification is objected	to by the Examiner.							
10)☐ The drawing(s) filed on	_ is/are: a)□ accepte	d or b)□ objected to	by the Examiner.					
Applicant may not request that	any objection to the draw	ing(s) be held in abeya	ance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is ob	jected to by the Examin	ner. Note the attache	ed Office Action or form P	ΓΟ-152.				
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of	a claim for foreign prio	rity under 35 U.S.C.	§ 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified	d copies of the priority d	locuments have bee	n received in this National	Stage				
application from the I	nternational Bureau (PC	CT Rule 17.2(a)).						
* See the attached detailed Off	fice action for a list of th	e certified copies no	t received.					
Attachment(s)				·				
1) Notice of References Cited (PTO-892)		4) Interview	Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing		Paper No	o(s)/Mail Date	0.453)				
3) Information Disclosure Statement(s) (PT Paper No(s)/Mail Date	O-1449 or PTO/SB/08)	5) Motice of 6) Other:	Informal Patent Application (PT	O-192)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-55 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Larnard et al '772.

Larnard et al discloses a processor 19 having a normal processing mode (see 101 for normal sinus rhythm data) for benign heart rhythm comprising a normal sinus rhythm and a guarded processing mode responsive to a non-benign heart rhythm comprising classifying cardiac events as bradycardia or tachycardia. Event/Peak detection 103, interval and morphology calculations 104 provide means for switching from the normal processing mode to a guarded processing mode and event and rhythm classifications 105 and 106 provide discriminatory arrhythmia classification algorithms.

Regarding claims 5, 7, 13, 17, 20, 26, 45 and 52, the evidence of atrial flutter is provided by the detection circuitry of the atrial data path 170 of the algorithm which performs an event and peak detection determination at 171 and then loads the time of the atrial P-wave peak into an atrial buffer at 172.

Regarding claims 37-41 sensing electrodes 11 provides first and second sensors. Pacing therapy is delivered from the action module 20 to the atrial and ventricular sensing and pacing leads 11 and 12 by means of a bus 21.

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Applicant's remarks filed, 4/5/05 that Larnard does not teach operation of a processor in a normal and in a guarded mode is without merit. Larnard clearly shows a processor 19 capable of normal and guarded mode operation.

Applicant's specification defines a "normal" mode of operation: In normal processing mode, the device performs a comparatively simple rhythm analysis that is not computationally demanding and consumes relatively little energy.

Larnard et al teach bradycardia therapy and tachycardia therapy use energy shock to restore normal sinus rhythm. Under normal sinus rhythm little energy is consumed. Further, determining a threshold value for normal sinus rhythm is a comparatively simple rhythm analysis and also consumes relatively little energy. See col. 6, line 62 to col. 7, line 14.

Applicant's specification defines a "guarded" mode of operation: *In guarded* processing mode, the highly discriminatory but computationally demanding arrhythmia classification is activated and therapy may be delivered if appropriate.

Larnard et al teach discriminating arrhythmias using a programmable event algorithm 105 and a computationally demanding arrhythmia classification algorithm 106 and delivering an appropriate therapy. See col. 2, line 51 to col. 3, line 5.

Therefore, Larnard et al teach more than an algorithm and the examiner's interpretation is reasonable.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Manuel whose telephone number is (703) 308-2118.

George Manuel Imary Examiner Art Unit: 3762

5/19/05